OBLON, SPIVAK, ET AL DOCKET #: 219585US2 INV: Yuji ABURAKAWA, et al. SHEET 1 OF 1

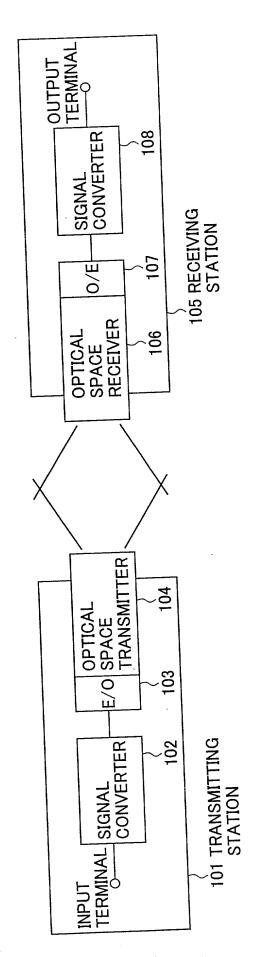


FIG.1

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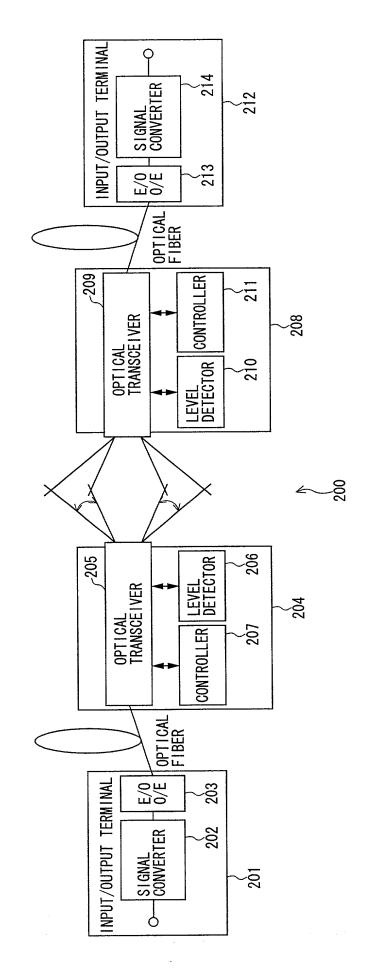
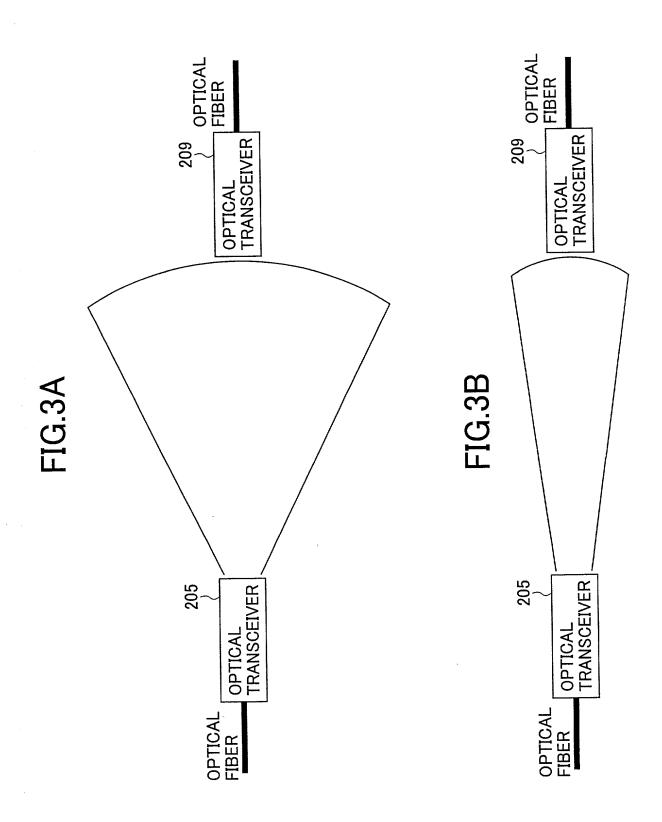
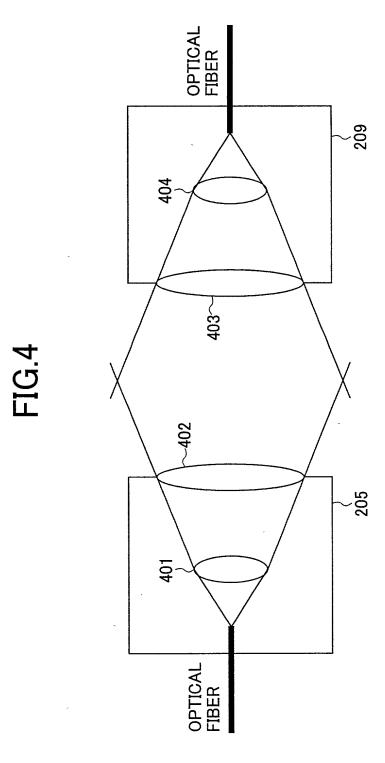


FIG 2

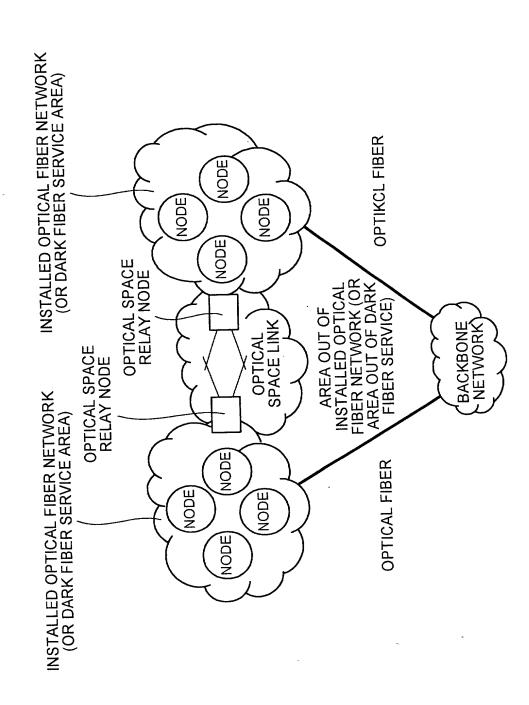




TO OTHER NODES NODE8 NODE6 SWITCH 504 -209 CONTROLLER NODE 7 OPT I CAL TRANSCE I VER 503 LEVEL DETECTER NODE5 206 LEVEL DETECTER NODE4 205 OPTICAL TRANSCEIVER 501 CONTROLLER 207 NODE2 -502 SWITCH TO OTHER NODES NODE3 NODE1

FIG 5

FIG. 6



AREA OUT OF INSTALLED OPTICAL FIBER NETWORK (OR AREA OUT OF DARK FIBER SERVICE) (NODE) (AODE) (HODE) OPTICAL SPACE LINK INSTALLED OPTICAL FIBER NETWORK (OR DARK FIBER SERVICE AREA) NODE) NODE) NODE) BACKBONE NETWORK) NODE) **OPTICAL FIBER**

FIG. 7